

Ref

OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

Edited by

FRANCIS HEMMING, C.M.G., C.B.E.
Secretary to the Commission

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OPINION 353

Validation under the Plenary Powers of the generic
name *Hoplites* Neumayr, 1875 (Class Cephalopoda,
Order Ammonoidea)



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INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

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lands*) (12th August 1953)

OPINION 353

VALIDATION UNDER THE PLENARY POWERS OF THE GENERIC NAME " HOPLITES " NEUMAYR, 1875 (CLASS CEPHALOPODA, ORDER AMMONOIDEA)

RULING :—(1) The under-mentioned action is hereby taken under the Plenary Powers :—

- (a) The under-mentioned generic names are hereby suppressed under the Plenary Powers for the purposes both of the Law of Priority and of the Law of Homonymy :—
- (i) *Hoplites* Dejean, 1833 ;
 - (ii) *Hoplites* Dejean, 1836 ;
 - (iii) *Hoplites* Dejean, 1837 ;
 - (iv) *Hoplites*, any uses additional to those specified in (i) to (iii) above, in the Order Coleoptera (Class Insecta), prior to the publication of *Hoplites* Neumayr, 1875 (Class Cephalopoda, Order Ammonoidea);
 - (v) *Hoplites* Agassiz (J.L.R.), 1846 (an Invalid Emendation of *Hoplitis* Hübner, [1819] ;)
 - (vi) *Hoplites* Agassiz (J.L.R.), 1846 (an Invalid Emendation of *Aplites* Rafinesque, 1820) ;
 - (vii) *Hoplites* Philippi, 1857 ;
 - (viii) *Hoplites* Theobald, 1864 ;
 - (ix) *Hoplites* Koch, 1869 ;
- (b) The generic name *Hoplites* Neumayr, 1875, is hereby validated ;
- (c) All selections of type species for the genus *Hoplites* Neumayr, 1875, made prior to the present Ruling are hereby set aside and the nominal species *Ammonites dentatus* Sowerby (J.), 1821, as defined by Spath (L.F.), 1925 (*Ammonoidea of the Gault* 1 : 10) is hereby designated to be the type species of the foregoing genus.

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(2) The under-mentioned generic names are hereby placed on the *Official List of Generic Names in Zoology* with the Name Nos. severally specified below :—

- (a) *Hoplites* Neumayr, 1875, as validated under the Plenary Powers under (1)(b) above (gender : masculine) (type species, by designation under under the Plenary Powers under (1)(c) above : *Ammonites dentatus* Sowerby (J.), 1821, as defined under the Plenary Powers under (1)(c) above) (Name No. 876) ;
- (b) *Enema* Hope, 1837 (gender : neuter) (type species, by original designation : *Scarabaeus enema* Fabricius, 1787) (Class Insecta, Order Coleoptera) (Name No. 877) ;
- (c) *Astrobonus* Thorell, 1876 (gender : masculine) (type species, by original designation : *Hoplites argentatus* Koch, 1869) (Class Arachnida) (Name No. 878).

(3) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Nos. severally specified below :—

- (a) The nine generic names suppressed under the Plenary Powers for the purposes both of the Law of Priority and of the Law of Homonymy under (1)(a) above (Name Nos. 285 to 293) ;
- (b) *Hoplites* Eggers, 1923 (a junior homonym of *Hoplites* Neumayr, 1875) (Name No. 294) ;
- (c) *Hoplites* Kinel, 1930 (a junior homonym of *Hoplites* Neumayr, 1875) (Name No. 295) ;
- (d) *Odonthoplites* Breistroffer, 1947 (type species, through Rule (f) in Article 30 : *Ammonites dentatus* Sowerby (J.), 1821) (a junior synonym of *Hoplites* Neumayr, 1875, as defined under the Plenary Powers under (1)(c) above) (Name No. 296) ;

(4) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* with the Name Nos. severally specified below :—

- (a) *dentatus* Sowerby (J.), 1821, as published in the combination *Ammonites dentatus* (specific name of type species, by designation under the Plenary Powers under (1)(c) above, of *Hoplites* Neumayr, 1875) (Name No. 489) ;
- (b) *pan* Fabricius, 1775, as published in the combination *Scarabaeus pan* (Class Insecta, Order Coleoptera) (Name No. 490) ;
- (c) *enema* Fabricius, 1787, as published in the combination *Scarabaeus enema* (specific name of type species of *Enema* Hope, 1837) (for use by specialists who consider that the nominal species *Scarabaeus enema* Fabricius, 1787, and *Scarabaeus pan* Fabricius, 1775, represent different taxa) (Class Insecta, Order Coleoptera) (Name No. 491) ;
- (d) *helleri* Ausserer, 1867, as published in the combination *Acantholophus helleri* (Class Arachnida) (Name No. 492).

(5) The under-mentioned family-group name is hereby placed on the *Official List of Family-Group Names in Zoology* with the Name No. 10 :—HOPLITIDAE (correction of HOPLITIDÉS) Douvillé, 1890) (type genus : *Hoplites* Neumayr, 1875) (first published in correct form as HOPLITIDAE by Hyatt, 1900).

(6) The under-mentioned family-group name is hereby placed on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* with the Name No. 46 :—HOPLITIDÉS Douvillé, 1890 (an Invalid Original Spelling for the family name HOPLITIDAE, to which form the name was corrected by Hyatt, 1900).

I.—THE STATEMENT OF THE CASE

On 16th April 1951 Mr. C. W. Wright (*London*) submitted the following application for the use by the Commission of its Plenary Powers to validate the well-known generic name *Hoplites* Neumayr, 1875 (Class Cephalopoda, Order Ammonoidea) with *Ammonites dentatus* Sowerby (J.), 1821, as type species :—

Proposed use of the Plenary Powers to validate the generic name “*Hoplites*” Neumayr, 1875 (Class Cephalopoda, Order Ammonoidea) and to designate a type species for this nominal genus in harmony with current nomenclatorial usage

By C. W. WRIGHT (*London*)

The object of the present application is to ask the International Commission on Zoological Nomenclature to use its Plenary Powers, first, to validate the well-known generic name *Hoplites* Neumayr, 1875 (Class Cephalopoda, Order Ammonoidea), and, second, to designate a type species for this genus in harmony with current nomenclatorial usage. It is hoped that it will be possible for the International Commission to reach an early decision on these questions, as such a decision is urgently required in connection with the preparation of the forthcoming international *Treatise on Invertebrate Paleontology*. The facts relating to this case are set out in the following paragraphs.

2. The generic name *Hoplites* Neumayr, 1875 (*Sitzber. Akad. Wiss. Wien* (math. nat. Kl.) 71 (No. 1) : 681) was established for a large number of species of ammonites, ranging from Kimmeridgian PERISPINCITIDAE to Campanian PLACENTICERATIDAE. Since the publication of the name *Hoplites* by Neumayr in 1875, separate names have been given by various authors to most of the distinguishable groups included by Neumayr in this genus, and for the last half century the name *Hoplites* Neumayr has been used solely or primarily for the Albian “*dentati*”. The accepted current interpretation of this nominal genus is that by Spath, 1925 (*Ammonoidea of the Gault*, London (*Pal. Soc. Monogr.*, 1922) 1 : 79).

3. Among the species of various ages included by Neumayr in his genus *Hoplites*, was *Ammonites interrupta* Bruguière, 1789 (*Ency. méth.* (Vers) (1) : 41) which was regarded as representative of the Albian group of the “*dentati*”, a nominal species which can be clearly interpreted from the figures given by d’Orbigny in 1841 (*Pal. franç.*, Terr. crét. 1 : 211, pls. 31, 32) which were labelled “*interruptus*”. As already explained, the nominal genus *Hoplites* Neumayr has always been regarded as being typified by the foregoing taxonomic group, which throughout most of the nineteenth century was identified with *Ammonites interrupta* Bruguière. In 1897, however, Parona & Bonarelli (*Pal. ital.* 2 : 91) demonstrated that Bruguière’s nominal species

Ammonites interrupta represents a Jurassic Parkinsoniid and not one of the Albian "dentati". This conclusion was later confirmed by Jacob in 1907 (*Trav. Lab. Geol. Grenoble* 8(2) : 361) and by Spath in 1925 (: 80). The genus *Hoplites* Neumayr, 1875, as hitherto understood, rests, therefore, upon a misidentification.

4. The interpretation of *Ammonites interrupta* Bruguière by d'Orbigny in 1841 to which reference has already been made itself included what are now regarded as being several distinct species of the "dentati". Among these was the species represented by the nominal species *Ammonites dentatus* Sowerby (J.), 1821 (*Min. Conch.* 4 : 3, pl. 308), although none of the figures given by d'Orbigny represents that species as now restricted in the sense specified by Spath in 1925 (: 101—105).

5. Jacob in 1907 (*loc. cit.* : 369) selected *Ammonites dentatus* Sowerby, 1821, to be the type species of the nominal genus *Hoplites* Neumayr, 1875. This selection has since been generally accepted (see Spath, 1925 : 100) by whom the species was interpreted in the sense indicated above ; Roman, 1938, *Amm. jur. cré.* : 364). Under the *Règles*, Jacob's selection of this species as the type species of *Hoplites* Neumayr is invalid, for the nominal species *Ammonites dentatus* Sowerby, 1821, was not one of the nominal species originally included in this genus by Neumayr. That selection is however consistent with Neumayr's conception of his genus, so far as it is now possible to make out what that was.

6. The difficulties which have arisen in regard to the name *Hoplites* Neumayr, 1875, are not confined, however, to doubts regarding its type species, for, in addition, this generic name is invalid as a junior homonym, the name *Hoplites* having been applied to no less than six other nominal genera, before it was published by Neumayr for the genus of ammonites under consideration. These nominal genera are :—

- (1) *Hoplites* Dejean, 1833 (*Cat. Coléopt.* (ed. 2) : 150).
- (2) *Hoplites* Agassiz, 1846 (*Nomencl. zool. Lep.* : 36) (an emendation of the name *Hoplitis* Hübner [1819], *Verz. bekannt. Schmett.* (10) : 147) ;
- (3) *Hoplites* Agassiz, 1846 (*Nomencl. zool. Index univ.* : 185) (an emendation of the name *Aplites* Rafinesque, 1820, *Western Review* 2(1) : 50) ;
- (4) *Hoplites* Philippi, 1857 (*Arch. Naturgesch.* 23 (Abt. 1) : 320) ;
- (5) *Hoplites* Theobald, 1864 (*J. asiat. Soc. Bengal* (Pt. 1) 33 : 244) ;
- (6) *Hoplites* Koch, 1869 (*Z. Ferd. Tyrol* (3)14 : 155).

7. Of the foregoing names not one is in use today in the group concerned. *Hoplites* Dejean, 1833, applied to a group of beetles, is a

nomen nudum (see Neave, 1939, *Nomencl. zool.* 2 : 691). The name *Hoplites* Agassiz, 1846, published as an emendation of *Hoplitis* Hübner [1819] (a genus of Lepidoptera), has not been adopted; nor has the corresponding emendation made by Agassiz in 1848 for *Aplites* Rafinesque, 1820, a genus of fishes. The name *Hoplites* Philippi, 1857, applied by its author to a genus of Crustacea, is invalid as a junior homonym of *Hoplites* Agassiz, 1846; Miss I. Gordon (British Museum (Natural History)), whom I have consulted, has kindly informed me that the animal placed in this genus by Philippi is the larval form of a species belonging to a genus of Peneida, probably *Gennadas* Bate, 1881 (*Ann. Mag. nat. Hist.* (5)8 : 191). The name *Hoplites* Theobald, 1864, applied by its author to a genus of slugs, is invalid as a junior homonym of *Hoplites* Agassiz, 1846. The nominal genus so named (as has been pointed out to me by Dr. L. R. Cox, F.R.S., of the British Museum (Natural History)) is treated by Theile (J.), 1931 (*Handb. syst. Weichtierkunde* 1 : 641) as identical with the nominal genus *Girasia* Gray, 1855 (*Cat. Pulmonata Coll. Brit. Mus.* : 51, 61), of which name Theile therefore treats *Hoplites* Theobald as a junior synonym. Finally, the name *Hoplites* Koch, 1869, which, like the two names discussed immediately above, is an invalid junior homonym of *Hoplites* Agassiz, 1846, has been replaced on this account by the name *Astrobonus* Thorell, 1876 (*Ann. Mus. Stor. nat. Genova* 8 : 466, 499).

8. In spite of the existence of the names listed above, the name *Hoplites* Neumayr, 1875, was never challenged on the ground that it was an invalid junior homonym until 1947, when this view was put forward by Breistroffer (*Trav. Lab. Géol. Grenoble* 26 : 84), who considered that on this account the name *Hoplites* Neumayr, 1875, should be rejected. He accordingly published the new generic name *Odonthoplites* (: 84), designating *Hoplites canavarii* Parona & Bonarelli, 1897, as its type species. Breistroffer called his new subgenus *Odonthoplites* a *nom. nov.* for *Hoplites* Neumayr, although, as will be seen, he designated a different species as its type species, thus in fact making the two genera (or subgenera) only subjectively identical with one another as the type species of the nominal genus so named are not the same. Breistroffer treated *Odonthoplites* Breistroffer as a subgenus of *Euhoplites* Spath, 1925 (*Ammonoidea Gault (Pal. Soc. Monogr.*, 1922) (2) : 82). At the same time he applied the new name ANAHOPLITIDAE to the family hitherto universally known as HOPLITIDAE. The result is great confusion in the nomenclature of this group of ammonites.

9. The position is therefore that none of the genera to which the name *Hoplites* was applied prior to the publication of Neumayr's paper in 1875 now bears that name but that, although an invalid name, the genus *Hoplites* Neumayr is an important genus in ammonites, having given its name not only (as mentioned above) to a family but also to a superfamily. The rejection of this name on the ground of

homonymy would serve absolutely no useful purpose, since (as has been shown) none of the earlier names are in use in the groups concerned. Such rejection would, on the other hand, give rise to quite unnecessary confusion and instability in the nomenclature of the group concerned.

10. For the reasons set forth above, I accordingly ask the International Commission on Zoological Nomenclature :—

(1) to use its Plenary Powers :—

(a) to suppress the under-mentioned generic names for the purposes both of the Law of Priority and for those of the Law of Homonymy :—

- (i) *Hoplites*, as applied to any genus of the Order Coleoptera (Class Insecta) subsequent to the publication of the *nomen nudum* *Hoplites* Dejean, 1833, and prior to the publication of the name *Hoplites* Neumayr, 1875 ;
- (ii) *Hoplites* Agassiz, 1846 (as published as an emendation of the name *Hoplitis* Hübner [1819] ;
- (iii) *Hoplites* Agassiz, 1846 (as published as an emendation of *Aplites* Rafinesque, 1820) ;
- (iv) *Hoplites* Philippi, 1857 ;
- (v) *Hoplites* Theobald, 1864 ;
- (vi) *Hoplites* Koch, 1869 ;

(b) to validate the generic name *Hoplites* Neumayr, 1875 ;

(c) to set aside all selections of type species for the genus *Hoplites* Neumayr, 1875, made prior to the decision now proposed to be taken, and to designate *Ammonites dentatus* Sowerby (J.), 1821 (as defined by Spath, 1925) to be the type species of the foregoing genus ;

(2) to place the generic name *Hoplites* Neumayr, 1875 (gender of name : masculine) (type species, by designation, as proposed under (1)(c) above, under the Plenary Powers and as there proposed to be interpreted : *Ammonites dentatus* Sowerby (J.), 1821) on the *Official List of Generic Names in Zoology* ;

(3) to place the under-mentioned reputed or invalid generic names on the *Official Index of Rejected and Invalid Generic Names in Zoology* :—

- (a) *Hoplites* Dejean, 1833 (a *nomen nudum*) ;
- (b) the six generic names proposed, under (1)(a) above, to be suppressed under the Plenary Powers ;

- (4) to place the trivial name *dentatus* Sowerby (J.), 1821, as published in the binominal combination *Ammonites dentatus* (the trivial name of the type species of *Hoplites* Neumayr, 1875) on the *Official List of Specific Trivial Names in Zoology*.

11. Dr. L. F. Spath, F.R.S. (British Museum (Natural History)), whom I have consulted in the course of the preparation of the present application, kindly allows me to state that he is in agreement with the recommendations now submitted.

II.—THE SUBSEQUENT HISTORY OF THE CASE

2. Registration of the present application : Upon the receipt of Mr. Wright's letter of 16th April 1951, the problem involved in connection with the name *Hoplites* Neumayr, 1875, was allotted the Registered Number Z.N.(S.) 533.

3. Publication of the present application : The present application was sent to the printer on 25th April 1951 and was published on 28th September of the same year in Part 4 of volume 6 of the *Bulletin of Zoological Nomenclature* (Wright, 1951, *Bull. zool. Nomencl.* 6 : 110—114).

4. Issue of Public Notices : Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 50—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 28th September 1951, both in Part 4 of volume 6 of the *Bulletin of Zoological Nomenclature* (the Part in which Mr. Wright's application was published) and also to the other prescribed serial publications. In addition, Public Notice was given

to a number of palaeontological, general zoological, and entomological serials in Europe and America. The issue of these Public Notices elicited no objection to the proposed use of the Plenary Powers for the purpose specified in the present application.

5. Support received from Mr. R. Casey (Geological Survey and Museum, London) : On 5th October 1951 Mr. R. Casey (*Geological Survey and Museum, London*) addressed the following letter to the Commission in support of the application submitted by Mr. Wright (Casey, 1952, *Bull. zool. Nomencl.* **6** : 241) :—

I write in support of the application submitted to the International Commission on Zoological Nomenclature by Mr. C. W. Wright to validate the name of the nominal genus *Hoplites* Neumayr, 1875, and also to validate Jacob's designation of *Ammonites dentatus* J. Sowerby, 1821, as the type species of the said nominal genus. As a student of Cretaceous ammonites, I am familiar with the case (see Casey, R., 1949, *Geol. Mag.*, **86** : 333, footnote ; 1950, *Proc. Geol. Assoc.*, **61** : 293, footnote) and am of the opinion that the decisions which Mr. Wright proposes that the International Commission should make are in the best interests of nomenclatorial stability.

6. Issue of Voting Paper V.P.(52)56 : On 22nd May 1952, a Voting Paper (V.P.(52)56) was issued in which the Members of the Commission were invited to vote either for, or against, " the proposal relating to the name *Hoplites* Neumayr, 1875, as set out in Points (1) to (4) in paragraph 10 at the foot of page 113 and continued on page 114 of volume 6 of the *Bulletin of Zoological Nomenclature* " [i.e. in paragraph 10 of the application reproduced in the first paragraph of the present *Opinion*].

7. The Prescribed Voting Period for V.P.(52)56 : As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 22nd August 1952.

8. Receipt during the Prescribed Voting Period of a Supplementary Note from the Applicant (Mr. C. W. Wright) : On 2nd

July 1952 Mr. C. W. Wright, the applicant in the present case, submitted a report drawing attention to the fact that it now transpired that, contrary to his belief at the time when he had submitted his application in the present case, *Ammonites archiacianus* d'Orbigny, 1841 (*Paleont. franç.*, Cret. 1 (Ceph.) : 144) had been selected as the type species of *Hoplites* Neumayr, 1875 by Lemoine in 1906, i.e. in the year previous to the selection by Jacob (1907). Mr. Wright added that, if he had been aware of the foregoing selection by Lemoine at the time when he prepared his application, he would still have asked the Commission to use its Plenary Powers to designate *Ammonites dentatus* Sowerby to be the type species of *Hoplites* Neumayr, 1875, for the species "*Ammonites archiacianus* d'Orb. falls within the genus *Protophlites* Spath (L.F.), 1923, now in general use. To accept it as type species of *Hoplites* would result in serious confusion and would upset the general modern usage".

9. Decision by the Secretary temporarily to withdraw the proposals submitted with Voting Paper V.P.(52)56 : On 14th July 1952 a note dated 9th July 1952 was received in the Office of the Commission in which Professor Chester Bradley (a) expressed the view that, contrary to that advanced in Mr. Wright's application, some at least of the usages of the name *Hoplites* by Dejean in the Order Coleoptera (Class Insecta) had been duly published with an indication and therefore that there was an available name *Hoplites* Dejean, and (b) asked that further investigations should be made in regard to the nominal genera involved in the Class Arachnida. At the close of the Prescribed Voting Period, fourteen Commissioners (Calman ; Hering ; Dymond ; Hankó ; Bonnet ; Vokes ; do Amaral ; Esaki ; Riley ; Lemche ; Pearson ; Stoll ; Boschma ; Cabrera) had voted in favour of the application submitted by Mr. Wright, two Commissioners (Jaczewski ; Mertens) had not returned their Voting Papers, Professor Chester Bradley, while expressing sympathy with the application, had (as explained above) asked that further investigations should be made in regard to certain aspects of Mr. Wright's proposals, while Mr. Hemming who, as Secretary, normally withholds his vote in any given case until towards the close of the Prescribed Voting Period, had decided not to vote until at the close of the Voting Period the position as regards this

case had been reviewed in the light of the communication received from Professor Bradley. This review was carried out on 1st September 1952. In the light of this review, Mr. Hemming, as Secretary, gave a direction that, having regard to the issues on questions of fact raised by Professor Bradley in his communication of 9th July 1952, the proposals voted upon in Voting Paper V.P.(52)56 be temporarily withdrawn, pending the examination of the questions raised in the foregoing communication.

10. Arrangements made to the investigation of outstanding issues in connection with the present application prescribed by the direction issued by the Secretary on 1st September 1952 : For the purpose of the investigation prescribed by the direction issued by the Secretary on 1st September 1952 (paragraph 9 above), Mr. Hemming entered into correspondence on the one hand with Mr. C. W. Wright, the applicant in the present case, and on the other hand with entomologists and arachnologists likely to be of assistance in elucidating the points involved in the prescribed investigation. Owing to the preoccupations of the Office of the Commission during the latter part of 1952 and in 1953 with the preparations for the discussions on zoological nomenclature arranged to be held at Copenhagen in connection with the meeting of the Fourteenth International Congress of Zoology, the required consultations occupied a considerable period. By the early summer of 1954 the portion of the investigation concerned with the usage of the name *Hoplites* by Dejean in the Order Coleoptera (Class Insecta) had been finished, while that relating to the remaining questions was approaching completion. It was then decided by the Secretary that the most convenient course would be at once to submit a Report to the Commission on the portion of the investigation which had already been completed and to follow this up as soon as possible with a Second Report dealing with the remaining issues involved. The two Reports so submitted are reproduced in paragraphs 11 and 15 of the present *Opinion*.

11. First Report submitted by the Secretary under the Direction issued on 1st September 1952 : On 9th July 1954 the Secretary submitted to the Commission the first of the two Reports which it

had been decided to prepare in compliance with the Direction issued on 1st September 1952 (paragraph 9 above). The Report so submitted, which bore the Number Z.N.(S.) 533, was as follows :—

Proposed minor amplifications of the proposal relating to the generic name "Hoplites" Neumayr, 1875 (Class Cephalopoda, Order Ammonoidea) submitted in Voting Paper V.P.(52)56 : First Report submitted under the Direction by the Secretary issued on 1st September 1952

By FRANCIS HEMMING, C.M.G., C.B.E.,

Secretary to the International Commission on Zoological Nomenclature

The purpose of the present submission is to prepare the way for the final consideration by the International Commission of the proposal submitted by Mr. C. W. Wright for the validation of the generic name *Hoplites* Neumayr, 1875 (Class Cephalopoda, Order Ammonoidea) which formed the subject of Voting Paper V.P.(52)56 (dated 22nd May 1952). That proposal received the approval of the Commission with no negative votes, but the decision so taken was not promulgated at the close of the Prescribed Voting Period because, in view of certain additional information which had come to light during that Period, I judged it better temporarily to withdraw the proposals submitted in the foregoing Voting Paper, in order to permit of the examination of the additional information so received, and accordingly on 1st September 1952, as Secretary, I issued a Direction in the foregoing sense.

2. This application, which was submitted for the purpose of securing a valid basis for the use of the foregoing well-known generic name in the *Treatise on Invertebrate Paleontology*, was published in the *Bulletin of Zoological Nomenclature* (vol. 6, pp. 110—114) in September 1951. The foregoing volume is available to all members of the Commission and accordingly no more than a brief word of explanation is here required.

3. In the Voting Paper referred to above, the members of the Commission were asked to vote "for" or "against" the proposal submitted in paragraph 10 of Mr. Wright's application, as set out at the foot of page 113 and at the top of page 114 of vol. 6 of the *Bulletin*. In the course of the voting on the above Voting Paper, Professor Chester Bradley expressed the view that *Hoplites* Dejean, 1833, which it had been stated in the application was a *nomen nudum*, was probably an available name under the revision of Proviso (a) to Article 25 of the

Règles carried out by the Thirteenth International Congress of Zoology, Paris, 1948 (see 1950, *Bull. zool. Nomencl.* 4 : 78—80), for although that generic name had been published without any indication, definition or description in words, it was likely that the names of validly published nominal species had been cited under this generic name by Dejean in 1833. Professor Bradley added that he was entirely in favour of the grant of the present application in order thereby to secure the validation of the ammonite name *Hoplites* Neumayr, but that he thought the position of Dejean's *Hoplites* ought first to be cleared up.

4. The difficulty in the present case arose from the fact that prior to 1948 coleopterists were in the habit of treating generic names published in the foregoing manner in the various editions of Dejean's *Catalogue* as being invalid names, and that since the Paris Congress of 1948 this practice has been continued, pending the submission of comprehensive proposals to the Commission for determining the treatment to be given to these names. It was for this reason that, when, in the course of preparing his application to the Commission in regard to the name *Hoplites* Neumayr, 1875, Mr. Wright consulted a specialist in the Coleoptera, he was assured that the name *Hoplites* Dejean, 1833, was a *nomen nudum*. Since receiving Professor Bradley's communication in regard to this case, I have consulted with Mr. N. D. Riley and Mr. E. B. Britton (*British Museum (Natural History), London*), as regards the name *Hoplites* as published by Dejean not only in 1833 in his *Catalogue*, but also in the versions of the editions published in 1836 and revised in 1837. The examination of Dejean's *Catalogue* so carried out shows that both in the 1833 and 1836 issues and again in the revised edition in 1837, the name *Hoplites* Dejean was validly published with an indication through the citation, in each case, under this generic name of the names of previously validly established nominal species. The species so cited in the issues of 1833 and 1836 were *Scarabaeus enema* Fabricius, 1787, (*Mantissa Ins.* 1 : 4) and *Scarabaeus pan* Fabricius, 1775 (*Syst. Ent.* : 5).

5. Although I do not wish at this point to enter into a discussion of the bibliographical questions which arise in connection with the various editions of Dejean's *Catalogue*, the inconsistencies in the literature as to the method to be adopted for distinguishing these editions from one another are so great that a word of explanation is needed, in order to make it clear which are the editions in which the name *Hoplites* appears. It must first be noted (a) that in 1802 Dejean published a work entitled "*Catalogue des Coléoptères de la Collection d'Auguste Dejean, classés suivant le "Systema Eleutheratorum" de Fabricius,*" (b) that later he published a work with the following very similar title "*Catalogue des Coléoptères de la collection de M. le baron Dejean*", and (c) that this latter work appeared in different versions—or at least with different title pages—on four occasions, namely, in 1821, 1833, 1836 and 1837. The difficulty which here arises is in connection

with the numbers to be allotted to these various editions or issues for purposes of reference. The works bearing the titles cited above are so essentially similar in content that it would not be unreasonable to look upon the second as forming a revised version of the earlier. Nevertheless, the differences between the two titles used are such that for bibliographical purposes the two must be treated as constituting separate works. This view is consistent with Dejean's own action in describing the 1836 edition as the "Troisième Edition". On the other hand the 1836 edition is said to be no more than a re-issue of the 1833 edition and was indeed treated as such by Hagen (1862, *Bibl. ent.* 1 : 165). These difficulties have led some authors (e.g. Hagen) to treat the 1837 edition as being the Fourth Edition, Hagen arriving at this conclusion by treating the two works described above as constituting a single unit and by ignoring the 1836 issue for the purpose of arriving at a number for the 1837 edition ; other authors however have treated the last-named edition as being the Third Edition. For the present purpose all that is important is that the form of notation to be adopted shall be such as will indicate in each case what is the edition to which reference is being made. Accordingly, I have thought it best, in citing the following references for the name *Hoplites* Dejean, to abandon the attempt to assign numbers to the various editions and in place of that system to indicate the edition intended by placing in brackets (parentheses) immediately after the title the year of publication followed by the word "Edition".

6. In the light of the information kindly furnished by Mr. Riley and Mr. Britton, we may now look at the proposal originally submitted by Mr. Wright and determine to what extent that application now requires to be modified. The portion of that proposal with which we are here concerned is that set out in Sub-Point (a) (i) in Proposal (1) in paragraph 10 of Mr. Wright's application. In Proposal (1)(a) Mr. Wright asked that the names, as there specified (i.e. the names numbered (i) to (vi)) should be suppressed for the purposes both of the Law of Priority and the Law of Homonymy. In his Sub-Point (i) Mr. Wright included the following item :—" *Hoplites*, as applied to any genus in the Order Coleoptera (Class Insecta) subsequent to the publication of the *nomen nudum* *Hoplites* Dejean, 1833, and prior to the publication of the name *Hoplites* Neumayr, 1875 ". The proposal so submitted duly secured the desired suppression of the name *Hoplites* Dejean (a) as published in the 1836 issue of Dejean's *Catalogue* and (b) as published in the revised edition of that work published in 1837. It covers also all uses of the name *Hoplites* in the Order Coleoptera in the period from 1833 to the publication in 1875 of the name *Hoplites* Neumayr. It will be seen therefore that the only point which it does not cover is that in connection with the name *Hoplites* as published in the 1833 issue of Dejean's *Catalogue*.

7. We may note therefore that the only action required by way of supplement to Mr. Wright's original application, is the suppression

under the Plenary Powers of the name *Hoplites* as used by Dejean in the 1833 edition of his *Catalogue*. Now that it has been definitely established that the name *Hoplites* was validly published with an indication in the 1836 and 1837 editions of the above work, it is desirable that these names should be expressly placed on the *Official Index of Rejected and Invalid Generic Names* instead of being covered indirectly (as hitherto proposed) by the provision that all uses of the name *Hoplites* in the Order Coleoptera between 1833 and 1875 should be suppressed.

8. The concrete proposal now submitted for approval is therefore that in place of the recommendation set out in Proposal (1)(a)(i) in paragraph 10 of Mr. Wright's application (i.e. in place of the proposal quoted in paragraph 6 of the present note), the Commission should approve the following revised proposal, namely, that the under-mentioned generic names be suppressed under the Plenary Powers for the purposes both of the Law of Priority and of the Law of Homonymy and that, after having been so suppressed, these names should be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology*.

- (i) *Hoplites* Dejean, 1833, *Catalogue* (1833 Ed.) : 150
- (ii) *Hoplites* Dejean, 1836, *Catalogue* (1836 Ed.) : 150
- (iii) *Hoplites* Dejean, 1837, *Catalogue* (1837 Ed.) : 167
- (iv) *Hoplites*, any uses additional to those specified in (i) to (iii) above, in the Order Coleoptera (Class Insecta), prior to the publication of the name *Hoplites* Neumayr, 1875.

12. **Issue of Voting Paper V.P.(O.M.)(54)17** : Simultaneously with the submission to the Commission on 9th July 1954 of the Report reproduced in the immediately preceding paragraph, a Voting Paper (V.P.(O.M.)(54)17) was issued in which the Members of the Commission were invited to vote either for, or against, "the supplementary proposal in relation to the generic name *Hoplites* Neumayr, 1875 (Class Cephalopoda, Order Ammonoidea) specified in paragraph 8 of the Report by the Secretary numbered Z.N.(S.) 533 submitted simultaneously with the present Voting Paper" [i.e. in paragraph 8 of the Report reproduced in paragraph 11 of the present *Opinion*].

13. **The Prescribed Voting Period for Voting Paper V.P.(O.M.)(54)17** : As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Paper was due to close on 9th

August 1954. In view, however, of doubts which arose on the question whether two Members of the Commission (Bradley (J. C.) ; Dymond (J. R.)) had duly received the Voting Papers issued to them, the Secretary gave directions that the Voting Period should be extended for a period sufficient to enable the Commissioners concerned to record their Votes on the duplicate Voting Papers then issued to them. Ultimately, the Voting Period in this case was closed on 11th September 1954.

14. Particulars of the Voting on Voting Paper V.P.(O.M.)(54)17 :

At the close of the Voting Period as extended by direction of the Secretary to 11th September 1954 (paragraph 13 above), the state of the voting on Voting Paper V.P.(O.M.)(54)17 was as follows :—

- (a) *Affirmative Votes had been given by the following eighteen (18) Commissioners (arranged in the order in which Votes were received)*¹ :

Holthuis ; Hering ; Esaki ; Lemche ; Hemming ;
Sylvester-Bradley ; Mertens ; Bonnet ; Boschma ;
do Amaral ; Riley ; Pearson ; Vokes ; Cabrera ; Stoll ;
Jaczewski ; Bradley (J. C.) ; Dymond ;

- (b) *Negative Votes :*

None ;

- (c) *Voting Papers not returned, one (1) :*

Hankó.

15. Second Report submitted by the Secretary under the direction issued on 1st September 1952 : On 30th November 1954

¹ In the interval between the issue of Voting Papers V.P.(52)56 and V.P.(O.M.)(54)17, the Commission suffered the loss of Dr. W. T. Calman by death. During the same interval, Mr. Sylvester-Bradley and Dr. Holthuis were elected as Members of the Commission.

the Secretary submitted to the Commission a Second (Final) Report on the matters covered by the Direction issued on 1st September 1952 (paragraph 9 above). In this report also Mr. Hemming dealt with the question of the family-group name based upon the generic name *Hoplites* Neumayr, 1875, the only other question associated with the present case still outstanding. The first two paragraphs of Mr. Hemming's Report were introductory in character, consisting of a brief recital of the circumstances which had led up to the investigation dealt with in that Report. The remainder of the Report was as follows :—

Proposed minor amplifications of the proposal relating to the generic name "Hoplites" Neumayr, 1875 (Class Cephalopoda, Order Ammonoidea) submitted in Voting Paper V.P.(52)56 : Second (Final) Report submitted under the Direction by the Secretary issued on 1st September 1952

By FRANCIS HEMMING, C.M.G., C.B.E.,

Secretary to the International Commission on Zoological Nomenclature

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3. The following are the points raised by Professor Chester Bradley when returning his copy of Voting Paper V.P.(52)56 :—

- (a) Professor Chester Bradley drew attention to the fact that Mr. Wright's application contained no express statement as to what species (if any) had been selected under Rule (g) in Article 30 to be the type species of *Hoplites* Neumayr, 1875, and asked that information on this subject should be provided. In addition, attention was drawn to the statement in Mr. Wright's application that Breistroffer had in 1947 published the generic name *Odonthoplites* as a *nom. nov.* for the name *Hoplites* Neumayr, but had selected for the nominal genus so established a type species different from the type species of *Hoplites* Neumayr.
- (b) Attention was drawn to various early uses of the name *Hoplites* by Dejean in his *Catalogue*, as regards which the view was expressed that, contrary to the statement contained in the application submitted in this case, some were not *nomina nuda*.
- (c) The validation of the name *Hoplites* Neumayr, 1875, would leave the name *Enema* Kirby as the oldest available name for the genus in the Order Coleoptera which Dejean had named *Hoplites*. It was suggested that the views of coleopterists should be sought on this point.
- (d) Similarly, the suppression of *Hoplites* Koch, 1869, as proposed (for the purpose of validating *Hoplites* Neumayr, 1875) would

leave the name *Astrobus* Thorell, 1876, as the oldest available name for the genus to which Koch had applied the name *Hoplites*. It was suggested that the views of arachnologists should be obtained on this question.

4. My inquiries regarding the second of the foregoing points (the point regarding the various early uses of the name *Hoplites* by Dejean for a genus of beetles) were the first to be completed and, in view of the rather complicated nature of the issues involved, I judged that it would be convenient if I were to submit a Report on this question in advance of that on the other points raised by Professor Chester Bradley. It was for this reason that last July I dealt with this subject in a paper which I submitted concurrently with a Voting Paper (V.P.(O.M.)(54)17). On that Voting Paper the Commission decided unanimously as to the action to be taken. In the following paragraphs I submit brief reports on the three other points (points (a), (c) and (d) in paragraph 3 above) raised by Professor Chester Bradley. On each of these cases I make recommendations as to subsidiary action which it is desirable that the Commission should take in order to comply with the General Directive issued to it by the International Congress of Zoology that in its *Opinions* it should deal comprehensively with all aspects of problems submitted to it.

5. **Question of the type species under the "Règles" of the nominal genus "Hoplites" Neumayr, 1875 :** Mr. Wright has informed me that, apart from the invalid selection by Jacob (1907) of *Ammonites dentatus* Sowerby to be the type species of *Hoplites* Neumayr, to which he had referred in his application (: 111), he had not been aware at the time of the submission of that application of any formal type selection having been made for the foregoing genus. Later, however, he had ascertained that in 1906 (*Etudes géologiques dans le Nord de Madagascar*: 178) Lemoine had published the following sentence which might perhaps be regarded as constituting a type selection for this genus: "Le genre *Hoplites* a été crée par Neumayr en 1875. Le type serait la première espèce: *H. archiacianus* d'Orb.". Mr. Wright proceeded as follows:—" *Ammonites archiacianus* d'Orbigny is the type species of the genus *Protohoplites* Spath, 1923, now in general use. To accept it as the type species of *Hoplites* would result in serious confusion and upset the general modern usage". In a later letter Mr. Wright explained that the only one of the species originally included by Neumayr in his genus *Hoplites* which is currently regarded as belonging to that genus is *Ammonites benettianus* Sowerby (J. de C.), 1826. Mr. Wright writes of this species:—"Neumayr referred to it as *A. benettianus* d'Orbigny, whereas it is a species of Sowerby and was placed by d'Orbigny in the synonymy of "*Am. interruptus* Brug.". *Hoplites benettianus* (Sowerby) is a rare species which has usually been misinterpreted in the literature. It would be undesirable as the type species of *Hoplites*". The information furnished by Mr. Wright is of interest as completing the historical account of the genus *Hoplites*

Neumayr but provides no ground for believing that the application already submitted, namely the acceptance under the Plenary Powers of *Ammonites dentatus* Sowerby (J.), 1821, as the type species of *Hoplites* Neumayr, 1875, is not the best solution in the present case. This conclusion is emphasised by the fact that, although support has been received for this proposal, no objection to it has been lodged with the Commission from any source.

6. The problem presented by the generic name "Odonthoplites"
Breistroffer, 1947 : It will be convenient at this point to deal with the question of the position of the nominal genus *Odonthoplites* Breistroffer, 1947, which was also raised by Professor Chester Bradley. This name was published as a *nom. nov. pro* the name *Hoplites* Neumayr by Breistroffer who was the first author to reject the name *Hoplites* Neumayr on the ground that it was a junior homonym of older generic names consisting of the same word. As explained in Mr. Wright's application Breistroffer in addition designated as the type species of his genus *Odonthoplites* the nominal species *Hoplites canavarii* Parona & Bonarelli, 1896, a species which was not one of those originally included by Neumayr in his genus *Hoplites* and indeed could not have been so included, Parona & Bonarelli's paper not having been published until twenty-one years after the publication of the name *Hoplites* Neumayr. The name *Odonthoplites* Breistroffer is thus an example of the class of hybrid names which were treated by their original authors in two quite inconsistent senses, in this case, as a substitute for an earlier but invalid generic name and in addition as the name for a genus having, as its type species, a species which was not, and could not have been, the type species of the genus, the name of which was so replaced. At the time when Mr. Wright originally submitted the present application, there existed no provision in the *Règles* to give guidance in the interpretation of names belonging to this class. At Copenhagen in 1953 however the Fourteenth International Congress of Zoology took a decision on the question of principle involved when it decided that in a case of this sort the name is to be treated as a substitute name, regardless of any other way in which it may also have been treated by its author (1953, *Copenhagen Decisions zool. Nomencl.* : 75—76, Decision 142). Accordingly, under the foregoing decision (which, though expressed in terms of the type specimen of a nominal species, must be held to apply automatically also to the type species of a genus²),

² It has since been judged desirable to ask the Commission to give a Ruling formally applying to the determination of the type species of a nominal genus established as a substitute for a previously established nominal genus the principle expressly laid down by the Copenhagen (1953) Congress in the decision (Decision 142) here referred to for determining the type specimen of a nominal species established as a substitute for a previously established nominal species. A request for a *Declaration* in this sense has accordingly been submitted to the Commission (Hemming, 1955, *Bull. zool. Nomencl.* **11** : 35—37) (Z.N.(S.) 867).

the type species of the nominal genus *Odonthoplites* Breistroffer, 1947, (being a name published as a substitute name) must in all circumstances be the species (whatever that species may be) which is the type species of the genus, for the name of which it was published as a substitute. In other words, the type species of *Odonthoplites* Breistroffer, 1947, is automatically the species (whatever that species may be) which is the type species of *Hoplites* Neumayr. Thus, if, as proposed by Mr. Wright, the name *Hoplites* Neumayr, 1875, is validated under the Plenary Powers with *Ammonites dentatus* Sowerby (J.), 1821, as type species, that species will thereupon become the type species also of *Odonthoplites* Breistroffer, 1947 (notwithstanding that author's invalid designation of a different species (*Hoplites canavarii* Parona & Bonarelli, 1896) as type species). At the same time the name *Odonthoplites* Breistroffer, 1947, will become a junior objective synonym of *Hoplites* Neumayr, 1875, and, as such, will need to be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology*.

7. The Coleoptera aspect of the present case : The suppression (under the vote taken on Voting Paper V.P.(O.M.)(54)17 last July) of the generic name *Hoplites* Dejean (of various dates) which forms a necessary part of the proposal for the validation in the Class Cephalopoda of the name *Hoplites* Neumayr, 1875, automatically creates a new situation in the Order Coleoptera, for some other name will become the oldest available name for the genus to which hitherto the name *Hoplites* Dejean has been properly applicable. Fortunately, this presents no more than a formal difficulty, for the practice of coleopterists has been to ignore generic names published without diagnoses in Dejean's *Catalogue*. For this reason the name *Hoplites* Dejean, 1833, has been generally ignored, the genus concerned being known by the next name published for it, namely *Enema* Hope, 1837 (*Coleopt. Manual* 1 : 83), the type species of which, by original designation by Hope, is *Scarabaeus enema* Fabricius, 1787 (*Mantissa Ins.* 1 : 4). (In view of the fact that names in the foregoing work have sometimes been attributed to Kirby instead of to Hope, it may usefully be noted (a) that Hope's book was based upon manuscripts prepared by Kirby, (b) that, while in some instances the indications, definitions or descriptions on which names in this work depend for availability may have been provided by Kirby (being therefore attributable to "Kirby in Hope"), this is not the case in the present instance where Hope is directly responsible for providing this nominal genus with a type species and for publishing the name, as is shown by the fact that later in the book Hope mentioned that Kirby had applied the name *infundibulum* to the type of this genus, meaning thereby that there was an entry to this effect in Kirby's manuscript notes). The name *Enema* Hope is in current use, in spite of the existence of the available senior synonym *Hoplites* Dejean. Thus the suppression of the latter name will not only cause no disturbance in coleopterological literature but will have the positive merit of giving valid force to current usage.

The name *Scarabaeus enema* Fabricius, 1787, was treated by Arrow in his *Catalogue* as the name for a variety of *Scarabaeus pan* Fabricius, 1775 (*Syst. Ent.* : 5). I am indebted to Mr. N. D. Riley and Mr. E. B. Britton (*British Museum (Natural History)*) for the information on which the foregoing report has been based. In the circumstances it appears to me that the only action, additional to that recommended by Mr. Wright, that is needed in connection with this part of the case is that the Commission, when validating *Hoplites* Neumayr and suppressing *Hoplites* Dejean, should also (1) place the generic name *Enema* Hope, 1837 (gender : neuter) (type species, by original designation : *Scarabaeus enema* Fabricius, 1787) on the *Official List of Generic Names in Zoology*, (2) place on the *Official List of Specific Names in Zoology* the specific name *pan* Fabricius, 1775, as published in the combination *Scarabaeus pan* (that being a generally accepted name). In view of Arrow's treatment of *enema* Fabricius as a variety of *pan* Fabricius, it would, I think, be better not to place the former name on the *Official List*.

8. The arachnological aspect of the present case : As pointed out by Professor Chester Bradley, the effect of validating the generic name *Hoplites* Neumayr, 1875, under the Plenary Powers, by suppressing all earlier uses of the word "Hoplites" as a generic name will involve a change in the status of the generic name *Hoplites* Koch, 1869 (Class Arachnida). The change will, however, be of a purely technical character, for the foregoing name will do no more than exchange its present position as an invalid junior homonym of *Hoplites* Dejean, 1833, for that of a name suppressed under the Plenary Powers. The practical effect will thus be absolutely nil. The oldest available name for this genus—and the name currently used for it—is the name *Astrobunus* Thorell, 1876 (*Ann. Mus. Stor. nat. Genova* 8 : 466, 499) which was published expressly as a *nom. nov. pro* the name *Hoplites* Koch, 1869. The type species of *Astrobunus* Thorell, 1876 (and, therefore, through Rule (f) in Article 30, of *Hoplites* Koch, 1869) is *Hoplites argentatus* Koch, 1869 (*Z. Ferd. Tyrol.* (3) 14 : 155—156). The nominal species so named is treated by specialists as a junior subjective synonym of *Acantholophus helleri* Ausserer, 1867 (*Verh. zool.-bot. Ges. Wien* 17 : 158). I am indebted to Dr. G. Owen Evans (*British Museum (Natural History)*) for the information on which the foregoing report has been based. It will be seen that beyond the suppression of the name *Hoplites* Koch, 1869, a name which has already been rejected on other grounds, the proposal submitted by Mr. Wright in relation to the name *Hoplites* Neumayr, 1875, has no point of contact with arachnological literature. In the circumstances the only action called for on the part of the Commission is that, when validating the name *Hoplites* Neumayr, 1875, and suppressing the name *Hoplites* Koch, 1869, it should (1) place the generic name *Astrobunus* Thorell, 1876 (gender : masculine) (type species by original designation : *Hoplites argentatus* Koch, 1869) on the *Official List of Generic Names in Zoology*, (2) place the specific name *helleri* Ausserer, 1867, as

published in the combination *Acantholophus helleri* on the *Official List of Specific Names in Zoology*.

9. Proposed addition to the " Official Index of Rejected and Invalid Generic Names in Zoology " of two further junior homonyms consisting of the word " *Hoplites* " : I find that in addition to the junior homonyms listed by Mr. Wright in his application and recommended by him for addition to the *Official Index of Rejected and Invalid Generic Names in Zoology* there are two others which should now also be placed on the foregoing *Official Index*. These are :—(a) *Hoplites* Eggers, 1923, *Zool. Meded.* 7 : 141 (Class Insecta, Order Coleoptera) ; (b) *Hoplites* Kinel, 1930, *Polsk. Pismo. ent.* 8 : 219 (Class Insecta, Order Coleoptera).

10. " *Hoplites* " Neumayr, 1875, as the type genus of a family-group : At the time of the submission of Mr. Wright's application there existed no means for stabilising nomenclature at the family-group level, but fortunately this defect was remedied by the revision of Articles 4 and 5 and by the establishment of the *Official List of Family-Group Names in Zoology* by the Fourteenth International Congress of Zoology, Copenhagen, 1953. In his application (: 113) Mr. Wright referred to the importance of the family name HOPLITIDAE and in view of the decision by the Copenhagen Congress it now becomes an obligation upon the Commission to place this family-group name on the *Official List of Family-Group Names in Zoology* at the same time that it places the generic name *Hoplites* Neumayr, 1875, on the *Official List of Generic Names in Zoology*. The following is the original reference for the foregoing family-group name :—HOPLITIDAE Hyatt, 1900, in Zittel-Eastman, *Textbook of Palaeontology* (First English Ed.) 1 : 584.

11. Proposal submitted : Now that the points raised by Professor Chester Bradley have been dealt with in the reports submitted in the present paper (paragraphs 4—8 above), it is possible to proceed to a final decision in the present case. On the question of procedure the position is : (1) that already (in 1952) by a vote of fourteen (14) to one (1) on Voting Paper V.P. (52)56 the Commission voted in favour of Mr. Wright's application and it was only because of the Direction issued on 1st September 1952 by myself as Secretary that a decision was not taken on the foregoing Voting Paper, final action then being deferred in order to provide an opportunity for the study of the points raised by Professor Chester Bradley ; (2) that the most substantial of the foregoing points was put to the Commission in July of this year and an appropriate modification of Mr. Wright's original proposal was then adopted by a unanimous vote on Voting Paper V.P.(O.M.)(54)17 ; (3) that, provided that the Commission is satisfied with the information furnished in the reports now submitted on Professor Chester Bradley's other points, the only matters still outstanding are the minor sub-

subsidiary questions on which I have submitted recommendations in the present paper. In the circumstances it appears to me that the most convenient course for the Members of the Commission will be for me to incorporate into a unified proposal (a) Mr. Wright's original proposal, (b) the amplification, and, in part, modification, of one part of that proposal adopted by the Commission in its vote on Voting Paper V.P.(O.M.)(54)17, and (c) the subsidiary proposals submitted in the present paper. I have accordingly drawn up a revised proposal on the foregoing lines and have annexed it as an Appendix to the present paper. It is this proposal which is now submitted to the Commission for final disposal.

APPENDIX

**Consolidated Proposal relating to the name “Hoplites”
Neumayr, 1875, and associated questions prepared
in the form of a Draft Ruling**

DRAFT RULING :—(1) The under-mentioned action is hereby taken under the Plenary Powers :—

- (a) The under-mentioned generic names are hereby suppressed for the purposes both of the Law of Priority and of the Law of Homonymy :—
- (i) *Hoplites* Dejean, 1833 ;
 - (ii) *Hoplites* Dejean, 1836 ;
 - (iii) *Hoplites* Dejean, 1837 ;
 - (iv) *Hoplites*, any uses additional to those specified in (i) to (iii) above, in the Order Coleoptera (Class Insecta), prior to the publication of the name *Hoplites* Neumayr, 1875 ;
 - (v) *Hoplites* Agassiz, 1846 (an Invalid Emendation of *Hoplitis* Hübner, [1819] ;
 - (vi) *Hoplites* Agassiz, 1846 (an Invalid Emendation of *Aplites* Rafinesque, 1820) ;
 - (vii) *Hoplites* Philippi, 1857 ;
 - (viii) *Hoplites* Theobald, 1864 ;
 - (ix) *Hoplites* Koch, 1869 ;

(b) The generic name *Hoplites* Neumayr, 1875, is hereby validated ;

- (c) All selections of type species for the genus *Hoplites* Neumayr, 1875, made prior to the present Ruling are hereby set aside and the nominal species *Ammonites dentatus* Sowerby (J.), 1821 (as defined by Spath (L.F.), 1925 (*Ammonoidea of the Gault* 1 : 101) is hereby designated to be the type species of the foregoing genus.

(2) The under-mentioned generic names are hereby placed on the *Official List of Generic Names in Zoology* :—

- (a) *Hoplites* Neumayr, 1875, as validated under the Plenary Powers under (1)(b) above (gender : masculine) (type species, by designation under the Plenary Powers under (1)(c) above : *Ammonites dentatus* Sowerby (J.), 1821, as defined under the Plenary Powers under (1)(c) above) ;
- (b) *Enema* Hope, 1837 (gender : neuter) (type species, by original designation ; *Scarabaeus enema* Fabricius, 1787) ;
- (c) *Astrobunus* Thorell, 1876 (gender : masculine) (type species, by original designation : *Hoplites argentatus* Koch, 1869) ;

(3) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* :—

- (a) The nine generic names suppressed under the Plenary Powers under (1)(a) above ;
- (b) *Hoplites* Eggers, 1923 (a junior homonym of *Hoplites* Neumayr, 1875) ;
- (c) *Hoplites* Kinel, 1930 (a junior homonym of *Hoplites* Neumayr, 1875) ;
- (d) *Odonthoplites* Breistroffer, 1947 (type species, through Rule (f) in Article 30 : *Ammonites dentatus* Sowerby (J.), 1821) (an objective junior synonym of *Hoplites* Neumayr, 1875).

(4) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* :—

- (a) *dentatus* Sowerby (J.), as published in the combination *Ammonites dentatus* (specific name of type species, by designation under the Plenary Powers under (1)(c) above, of *Hoplites* Neumayr, 1875) ;
- (b) *pan* Fabricius, 1775, as published in the combination *Scarabaeus pan* ;
- (c) *helleri* Ausserer, 1867, as published in the combination *Acantholophus helleri*.

(5) The under-mentioned family-group name is hereby placed on the *Official List of Family-Group Names in Zoology* :—HOPLITIDAE Hyatt, 1900 (type genus : *Hoplites* Neumayr, 1875).

III.—THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

16. Issue of Voting Paper V.P.(O.M.)(54)27 : Simultaneously with the submission of the Report reproduced in paragraph 15 above, there was issued on 30th November 1954 a Voting Paper (V.P.(O.M.)(54)27) in which the Members of the Commission were invited to vote either for, or against, “ the adoption of the proposal relating to the name *Hoplites* Neumayr, 1875, set out in the Appendix to the Report bearing the Registered Number Z.N.(S.) 533 submitted by the Secretary simultaneously with the present Voting Paper (consolidated proposal containing (a) the proposals already approved by the Vote taken on Voting Paper V.P.(52)56 and Voting Paper V.P.(O.M.)(54)17 respectively and (b) the minor adjustments specified in the Report by the Secretary referred to above ” [i.e. the Consolidated Proposal set out in the Appendix to the Report reproduced in paragraph 15 of the present *Opinion*].

17. The Prescribed Voting Period for Voting Paper V.P.(O.M.)(54)27 : As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period was due to close on 30th December 1954, but by a Direction issued by the Secretary on 28th December 1954 this Period was extended to 15th January 1955 in view of the delays consequent upon the exceptionally heavy calls on the postal services at the Christmas Season.

18. Particulars of the Voting on Voting Paper V.P.(O.M.)(54)27 : At the close of the Voting Period as extended by direction of the

Secretary to 15th January 1955 (paragraph 17 above), the state of the voting on Voting Paper V.P.(O.M.)(54)27 was as follows :—

- (a) *Affirmative Votes had been given by the following twenty (20) Commissioners (arranged in the order in which votes were received*³ :

Lemche ; Hering ; Vokes ; Dymond ; Stoll ; Esaki ; do Amaral ; Kühnelt ; Bodenheimer⁴ ; Bradley (J.C.) ; Bonnet ; Key ; Hemming ; Sylvester-Bradley ; Riley ; Jaczewski ; Hankó ; Boschma ; Miller ; Cabrera ;

- (b) *On leave of Absence, two (2) :*

Holthuis ; Mertens ;

- (c) *Voting Paper not returned, one (1)*³ :

Prantl ;

- (d) *Negative Votes :*

None.

19. Declaration of Result of Vote : On 15th January 1955, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.)(54)27, signed a Certificate that the Votes cast were as

³ The following zoologists who were Members of the Commission at the time of the issue of Voting Paper V.P.(O.M.)(54)27 were not Members of the Commission at the time of the issue of Voting Paper V.P.(O.M.)(54)17 :—

Dr. K. H. L. Key (*Commonwealth Scientific and Industrial Research Organisation, A.C.T., Australia*)

Dr. Alden H. Miller (*Museum of Vertebrate Zoology, University of California, Berkeley, California, U.S.A.*)

Doc. Dr. Ferdinand Prantl (*Národní Museum v Praze, Prague, Czechoslovakia*)

Professor Dr. Wilhelm Kühnelt (*Zoologisches Institut der Universität, Vienna, Austria*)

Professor F. S. Bodenheimer (*The Hebrew University, Jerusalem, Israel*)

⁴ Commissioner Bodenheimer exercised in this case the right conferred by the Thirteenth International Congress of Zoology, Paris, 1948, under which a Commissioner may, if he so desires, signify his willingness to support the view, or the majority view, of other Members of the Commission (1950, *Bull. zool. Nomencl.* 4 : 50—51).

set out in paragraph 18 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

20. A Supplementary Direction on two points : On 25th January 1955, Mr. Hemming, as Secretary placed the following Minute on the Commission's File Z.N.(S.) 533 :—

Authorship to be attributed to the family-group name based on the generic name "Hoplites" Neumayr, 1875, and addition of the specific name "enema" Fabricius, 1787, as published in the combination "Scarabaeus enema" to the "Official List of Specific Names in Zoology"

MINUTE by FRANCIS HEMMING, C.M.G., C.B.E.,

Secretary to the International Commission on Zoological Nomenclature

The purpose of the present Minute is to draw attention to two procedural questions arising in the *Hoplites*-case which call for further consideration.

2. Since the vote taken by the Commission on Voting Paper V.P.(O.M.)(54)27 Mr. C. W. Wright, the original applicant, has drawn attention to the fact that, as he has now realised, the acceptance of the family-group name based upon the generic name *Hoplites* Neumayr, 1875, from so late a date as Hyatt, 1900, as proposed in that Voting Paper, would give rise to serious confusion and name-changing at the superfamily level. The following is the letter received from Mr. Wright on this subject :—

Now that family-group names for all categories are co-ordinate with one another, the superfamily name should be that of the oldest included family. When I wrote my "Classification of the Cretaceous Ammonites" in 1952 (*J. Paleont.*), of the families then included in HOPLITACEAE, the families PULCHELLIIDAE, and HOPLITIDAE were the oldest, being attributed to Douvillé, 1890 (*Bull. Soc. géol. France* (3) 18 : 290). However, Douvillé used French terminations which are now disallowed for dating family-group names. Thus, PULCHELLIIDAE now dates from Hyatt, 1903, and HOPLITIDAE from Hyatt, 1900. All would be well but for the fact that two other included families, namely DOUVILLEICERATIDAE and SCHLOENBACHIIDAE, which were attributed by me in 1952 to Spath, 1922 (*Trans. Roy. Soc. Edinb.* 53 : 112) and Spath, 1925 (*Ann. Mus. Hist. nat. Marseilles* 20 : 97) respectively, now turn out both to date from Parona & Bonarelli, [1897] (*Pal. ital.* 2 : 101 and 89 respectively). It would be most unfortunate and confusing if it were necessary to call the superfamily after either *Douvilleiceras* or *Schloenbachia*, since it has been known by terms, either latinised or vernacular, based on the generic name *Hoplites* for over half a century.

3. The difficulty now brought to light by Mr. Wright is purely technical, arising from the discovery that Spath's action in establishing family-group taxa based upon the genera *Douvilleiceras* and *Schloenbachia* was anticipated by Parona and Bonarelli. For it is this alone which has displaced HOP_LITIDAE Hyatt, 1900, from being the oldest nominal

family included in the superfamily concerned. Even now it would have priority if it could be accepted as from Douvillé, 1890. The only defect in the latter's action is that he did not form the name HOPLITIDES in latinised form. The Copenhagen Congress (Decision 53(2)) has provided, however, for the acceptance of names such as Douvillé's where this is necessary in the interests of nomenclatorial stability. The Commission has clearly shown its intention that in the present case *Hoplites* Neumayr (as validated under the Plenary Powers) is to be taken as the type genus of the family-group taxa involved. Accordingly, the present appears to me, as also to Mr. Wright with whom I have discussed this matter, to be a case where the special provision of the Copenhagen Congress cited above must be held to apply.

4. The second point which calls for consideration arises in connection with the name of the type species of the genus *Enema* Hope, 1837 (Class Insecta, Order Coleoptera) discussed in paragraph 7 of the Report which I submitted to the Commission on 30th November 1954.⁵ I there noted that the nominal species concerned, *Scarabaeus enema* Fabricius, 1787, had been treated by Arrow in his *Catalogue* as representing a variety of *Scarabaeus pan* Fabricius, 1775, and I recommended that the specific name *pan* Fabricius should therefore be placed on the *Official List of Specific Names in Zoology*. In making this recommendation, I overlooked the fact that under the Regulations governing the foregoing *Official List*, the name *enema* Fabricius should also be placed thereon, since it is not treated by specialists as a junior synonym of *pan* Fabricius. As in other similar cases the entry so made should be endorsed by a note stating that this name is placed on the *Official List* for use by those specialists who take the taxonomic view that the nominal species discussed above represent different taxa at least at the infra-specific level.

5. Accordingly, as Secretary to the Commission, I hereby direct that in the Ruling to be prepared to give effect to the decisions taken by the Commission in relation to the name *Hoplites* Neumayr and associated names :—(1) the family-group name based upon the generic name *Hoplites* Neumayr, 1875, be attributed to Douvillé, 1890, the Invalid Original Spelling used by that author being at the same time placed on the *Official Index* ; (2) the name *enema* Fabricius, 1787, as published in the combination *Scarabaeus enema*, be included among the names so to be placed on the *Official List of Specific Names in Zoology*, subject to the endorsement of the entry to be made in relation to this name in the manner specified in paragraph 4 of the present Minute.

21. Preparation of the Ruling given in the present "Opinion" :
On 26th January 1955 Mr. Hemming prepared the Ruling given in the present *Opinion* and at the same time signed a Certificate

⁵ See pp. 68—69.

that the terms of that Ruling were in complete accord with the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(54)27, subject to the formal adjustments specified in the Minute executed by the Secretary on 25th January 1955. The text of the Minute here referred to has been given in paragraph 20 of the present *Opinion*.

22. Original References : The following are the original references for the generic and specific names placed on *Official Lists* and *Official Indexes* by the Ruling given in the present *Opinion* :—

- Astrobunus* Thorell, 1876, *Ann. Mus. Stor. nat. Genova* **8** : 466, 499
dentatus, *Ammonites*, Sowerby (J.), 1821, *Min. Conch.* **4** : 3, pl. 308
Enema Hope, 1837, *Coleopt. Manual* **1** : 83
enema, *Scarabaeus*, Fabricius, 1787, *Mantissa Ins.* **1** : 4
helleri, *Acantholophus*, Ausserer, 1867, *Verh. zool.-bot. Ges. Wien* **17** : 158
Hoplites Dejean, 1833, *Cat. Coléopt. Coll. Dejean* (1833 Ed.) : 150
Hoplites Dejean, 1836, *Cat. Coléopt. Coll. Dejean* (1836 Ed.) : 150
Hoplites Dejean, 1837, *Cat. Coléopt. Coll. Dejean* (1837 Ed.) : 167
Hoplites Agassiz (J.L.R.), 1846, *Nomencl. zool., Lep.* : 36
Hoplites Agassiz (J.L.R.), 1846, *Nomencl. zool. Index univ.* : 185
Hoplites Philippi, 1857, *Arch. Naturgesch.* **23**(Abt. 1) : 320
Hoplites Theobald, 1864, *J. asiat. Soc. Bengal* (Pt. 1) **33** : 244
Hoplites Koch, 1869, *Z. Ferd. Tyrol* (3) **14** : 155
Hoplites Neumayr, 1875, *SitzBer. Akad. Wiss. Wien, Math-naturw. Kl.* **71**(1) : 681 (also Neumayr, 1875, *Z. dtsh. geol. Ges.* **27** : 925
Hoplites Eggers, 1923, *Zool. Meded.* **7** : 141
Hoplites Kinel, 1930, *Polisk. Pismo ent.* **8** : 219
Odonthoplites Breistroffer, 1947, *Trav. Lab. Geol. Grenoble* **26** : 84
pan, *Scarabaeus*, Fabricius (J.C.), 1775, *Syst. Ent.* : 5

23. The following is the reference for the family-group name which by the Ruling given in the present *Opinion* has been placed in the corrected form HOPLITIDAE on the *Official List of Family-Group Names in Zoology* and in its Invalid Original Spelling

HOPLITIDES on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* :—

HOPLITIDES Douvillé, 1890, *Bull. Soc. géol. France* (3) **18** : 290 (first published in due Latinised form as HOPLITIDAE by Hyatt, 1900, in Zittel-Eastman, *Textb. Palaeont.* (First English Ed.) **1** : 584).

24. At the time of the submission of the original application dealt with in the present *Opinion*, the expression prescribed for the second portion of the binomen which constitutes the scientific name of a species was the expression “trivial name” and the *Official List* reserved for recording such names was styled the *Official List of Specific Trivial Names in Zoology*, the word “trivial” appearing also in the title of the *Official Index* reserved for recording rejected and invalid names of this category. Under a decision taken by the Fourteenth International Congress of Zoology, Copenhagen, 1953, the expression “specific name” was substituted for the expression “trivial name” and corresponding changes were made in the titles of the *Official List* and *Official Index* of such names (1953, *Copenhagen Decisions zool. Nomencl.* : 21). The changes in terminology so adopted have been incorporated in the Ruling given in the present *Opinion*.

25. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Opinion* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

26. The present *Opinion* shall be known as *Opinion Three Hundred and Fifty-Three* (353) of the International Commission on Zoological Nomenclature.

DONE in London, this Twenty-Sixth day of January, Nineteen Hundred and Fifty-Five.

*Secretary to the International Commission
on Zoological Nomenclature*

FRANCIS HEMMING